

INTERNATIONAL SEARCH REPORT

Intern plication No
PCT/EP2004/007274

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B65D35/08 B29D23/20 B29C45/00 B65D35/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65D B29D B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
① Y	DE 24 61 786 A (NAWRATH PETER) 1 July 1976 (1976-07-01) page 3, line 23 - line 25 page 4, lines 1-6 page 4, line 14 - line 15	1-3, 7-13
② Y	DE 43 18 014 C (ALFRED FISCHBACH KUNSTSTOFF SP) 1 June 1994 (1994-06-01) cited in the application column 3, line 34 - column 4, line 26	1
③ A	WO 92/00224 A (NORDEN PAC DEV AB) 9 January 1992 (1992-01-09) page 3, line 35 - page 4, line 15 page 5, line 15 - line 18 figure 4	1, 13

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

2 December 2004

Date of mailing of the international search report

30. 03. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
4 A	FR 2 630 409 A (TARTAGLIONE ANDRE) 27 October 1989 (1989-10-27) abstract page 2, line 28 - line 29 -----	1,13
5 Y	DE 197 03 316 A (FISCHBACH A KUNSTSTOFF KG) 6 August 1998 (1998-08-06) cited in the application column 4, line 31 - line 36 -----	11-13
6 Y	PATENT ABSTRACTS OF JAPAN vol. 014, no. 155 (M-0954), 26 March 1990 (1990-03-26) -& JP 02 016019 A (SATO SHIYOUSAN:KK), 19 January 1990 (1990-01-19) abstract -----	2,7,8,10
7 Y	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 02, 5 February 2003 (2003-02-05) & JP 2002 293097 A (YOSHINO KOGYOSHO CO LTD), 9 October 2002 (2002-10-09) abstract figure 6 paragraphs [0007], [0014], [0023], [0024] -& DATABASE WPI Week 200330 Derwent Publications Ltd., London, GB; AN 2003-304062 XP002306658 & JP 2002 293097 A 9 October 2002 (2002-10-09) abstract -----	2,9
8 Y	US 3 260 777 A (ROGER BRANDT) 12 July 1966 (1966-07-12) column 4, line 3 - line 27 column 5, line 24 - line 28 column 5, line 45 - line 60 -----	3,7,8,10
9 Y	DATABASE WPI Week 197927 Derwent Publications Ltd., London, GB; AN 1979-49921b <u>XP002306659</u> -& JP 54 065684 A 26 May 1979 (1979-05-26) abstract -----	3,7,8,10
10 A	DE 80 24 411 U (SCHULZE KURT) 22 January 1981 (1981-01-22) page 2, line 29 - page 3, line 15 -----	3,7,8

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
11 A	<p>PATENT ABSTRACTS OF JAPAN vol. 1998, no. 01, 30 January 1998 (1998-01-30) -& JP 09 225959 A (DAINIPPON PRINTING CO LTD), 2 September 1997 (1997-09-02) abstract</p> <p>-----</p>	2,3

INTERNATIONAL SEARCH REPORT

International application No.

EP04/7274

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See supplemental sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-3, 7-10, 11-13

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

The International Searching Authority has determined that this international application contains multiple (groups of) inventions, namely:

1. Claims 1-3, 7-10, 11-13

Method of producing a tube and tube produced according to this method.

1.1 Claims 1-3, 7-10

Method of producing a tube, a sheet or sleeve being inserted.

1.2 Claims 11-13

Method of producing a tube and tube produced according to this method, the core being supported during the injection phase.

2. Claims 4, 6

Method of producing a tube, either air or a slide coating being used to reduce the adhesion of the tube blank.

3. Claims 5, 14

Method of producing a tube and tube produced according to this method, the tube having a reduction in wall thickness.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internationa

pplication No

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